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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/562,402 O'TOOLE, ARTHUR J. Office Action Summary Examiner Art Unit ANDY GU 4146 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 24 December 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/S6/08) Notice of Informal Patent Application

Paper No(s)/Mail Date 11/112008.

6) Other:

Art Unit: 4146

Claims 1-19 are presented for examination.

Information Disclosure Statement

 The information disclosure statements (IDS) submitted on 11/11/2008 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Specification

The abstract of the disclosure filed on 12/24/2005 is objected to because it is not in proper format. The abstract is required to be put on a separate sheet, and it may not contain other information. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 3 and 19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
Claim 3 recites a "wireless control means" capable of changing the actual asset condition, however, the specification does provide sufficient support to enable one skilled in the art to make the said "wireless control means" and to practice its intended function.
Claim 19 recites the limitation "tightly coupling and integrating intelligent wireless devices mounted on freight assets with standard shipment messages communicating

Art Unit: 4146

relevant shipment conditions in the same format via a translator", which directs to coupling and integrating a physical devices with a message, which is intangible. The disclosure does not enable one skilled in the art to couple and integrate a physical device with an intangible message. For the purpose this examination, the limitation in question is interpreted as "mounting intelligent wireless devices on freight assets; and the integrating intelligent wireless devices communicate relevant shipment condition in the same format via a translator."

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

 Claims 4, 8, 15 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites the limitation "a translator", which in view of the foregoing disclosure is interpreted as a device that translates between two formats. However, claim 4 recites the translator as being capable of identifying and processing conditional information. The translator recited in claim 4 thus alludes to an information receiving /processing device. Above conflicts of the intended function of the translated thus render claim 4 indefinite. Furthermore, claim 4 recites the limitation "conditional information transmitted via wireless communications to a remote monitoring device attached to a freight asset". However, the specification does not support transmitting conditional information to the remote monitoring device. In view of other limitations recited in claim 4 and applicant's specification (see applicant's disclosure paragraph [0021]), and for the purpose of this examination, the limitation in question is interpreted as "conditional information

Art Unit: 4146

transmitted via wireless communications from a remote monitoring device attached to a freight asset"

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 recites the limitation "the intelligent device". Claim 8 further recites the limitation "the designated location". Claim 8 still further recites the limitation "the customer's designate location". There are insufficient antecedent basis for these limitations in the claim. For the purpose of this examination, "the intelligent device" is interpreted as "an intelligent device"; "the designated location" is interpreted as "a designated location"; "the customer's designated location" is intercepted as "the designated location. Furthermore, claim 8 recites the limitation "specific arrival and departure freight messages". However, the disclosure lacks support for the specificity of the recited arrival and departure freight messages, and thus renders the claim indefinite. Regarding claim 15, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention.

See MPEP § 2173.05(d).

Regarding **claim 17**, the phrase "etc." renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Objections

Claim 4 is objected to because of the following informalities: claim 4 recites
 "gps", an acronym that should be capitalized. Appropriate correction is required.

Art Unit: 4146

Claim 12 is objected to because of the following informalities: Claim 12 recites
the typo "assed", is interpreted as "asset". Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-2, 4-8, 11, 16-17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6865516 B1 Donald George Richardson (hereinafter Richardson) in view of US 20020111819 A1 Li et al. (hereinafter Li).

Regarding claim 1, Richardson discloses a freight management method, comprising: sensing a condition on a freight asset (see at least column 2 lines 36-40); and transmitting the information concerning the sensed condition over a wireless (i.e. GSM) system to a monitor system (i.e. central location) in one format (see at least column 2 lines 39-42, and column 3 lines 43-49).

Richardson does not specifically disclose the limitation translating the information concerning the sensed condition into a second format. However, in a related field of endeavor, Li discloses formatting input into a XML format (thereby translating information from one format to another, see at least Li paragraph [0004], [0034], [0136]). It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Richardson in view of Li in order to efficiently transmit data as discussed by Li (see at least Li paragraph [0034])

Art Unit: 4146

Richardson further discloses transmitting the information concerning the sensed condition from the monitor system to a user (see at least column 2 lines 46-50, column 5 lines 45-55). Richardson however does not specifically disclose the information been transmitted and received is in second format. However, in a related field of endeavor, Li discloses formatting input into a XML format for transmission (thereby transmitting information in another format, see at least Li paragraph [0004], [0034], [0136]). It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Richardson in view of Li in order to efficiently transmit data as discussed by Li (see at least Li paragraph [0034])

Regarding claim 2, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses wherein said step of transmitting the information concerning the sensed condition over a wireless system to a monitor system in one format includes responding to a trigger condition derived from user designated locations, destination areas (i.e. location), and freight operational settings (i.e. using only partial function, see at least column 5 lines 1-10) and conditions (i.e. temperature) on the asset (see at least column 2 lines 58-67 and column 6 lines 1-5). Richardson however does not specifically disclose organized to allow translating the information concerning the sensed condition into the second format. However, in a related field of endeavor, Li discloses formatting detected information into a XML format for transmission (thereby translating the information into another format, see at least Li paragraph [0004], [0034], [0136]). It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Richardson in view of Li in order to efficiently transmit data as discussed by Li (see at least Li paragraph [0034]).

Art Unit: 4146

Regarding claim 4, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses:

- a translator identifies conditional information contained within a standard freight
 message with corresponding conditional information transmitted via wireless
 communications from a remote monitoring device attached to a freight asset (see
 at least column 2 lines 39-41 and 62-67, column 3 lines 43-51);
- the conditional information containing one of a user designated location, a
 commodity's pre-determined temperature set point setting, an arrival notification,
 a departure notification, attachment of auxiliary power equipment, in the format a
 user within the freight shipment documentation (see at least column 2 lines 53-67
 and column 3 lines 52-62);
- causing said translator to reconcile events derived from wireless communications directly in the format contained in the freight message of gps (see at least_column 3 lines 43-51) coordinates to a "named area or location" in a standard shipping document, thereby allowing a specific sensor reading to be directly applied through the entire monitoring, communication and network path to create notifications (i.e. though the in-build integrator) that the documented shipment condition is initiated, satisfied or terminated (see at least column 2 lines 53-67 and column 3 lines 52-62, column 4 lines 66-67 column 5 lines 1-10 and column 6 lines 1-5).

Regarding claim 5, Richardson and Li discloses the limitations as shown in the rejection of claim 1 and 2. Richardson further discloses:

Application/Control Number: 10/562,402 Art Unit: 4146

transmitting the information concerning the sensed condition over a wireless
system to a monitor system occurs automatically by extracting relevant
information from standard freight shipment messages (see at least column 2 lines
36-44 and 58-67)

 delivering predetermined conditions via the use of a translation process (see at least column 3 lines 52-62, where Richardson discloses delivering predetermined conditions via a temperature/location plot, which translates raw numerical data in to graphical data, there a translation process).

Regarding claim 6, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses:

• transmitting the information concerning the sensed condition over a wireless system to a monitor system includes wireless notification transmissions events in real-time in real-time from a freight asset, based on pre-determined conditions identified in a standard freight message, and, through a translation process (see at least column 3 lines 52-62, where Richardson discloses delivering predetermined conditions via a temperature/location plot, which translates raw numerical data in to graphical data, there a translation process), and associating the transmission with a meaningful event to be used for tracking and monitoring of freight assets (see at least column 4 lines 55-65, column 5 lines 60-67 and column 6 lines 1-5).

Regarding claim 7, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses:

Application/Control Number: 10/562,402 Page 9

Art Unit: 4146

• transmitting the information concerning the sensed condition over a wireless system to a monitor system includes wireless notification transmissions events in real-time in real-time from a freight asset, based on pre-determined conditions identified in a standard freight message, and, through a translation process (see at least column 3 lines 52-62, where Richardson discloses delivering predetermined conditions via a temperature/location plot, which translates raw numerical data in to graphical data, there a translation process), and associating the transmission with a meaningful event to be used for tracking and monitoring of a commodity transported in a freight shipment(see at least column 4 lines 55-65, column 5 lines 60-67 and column 6 lines 1-5).

Regarding **claim 8**, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses:

- evaluating information about freight shipments, contained within standard freight
 messages, including one of terminal operations and intermodal ramp activities
 and related activities within the sensors (see at least column 5 lines 60-67 column
 6 lines 1-5, where Richardson discloses the shipment going through different
 mode of transportation and different warehouse, therefore intermodal),
- triggering and communicating in real time via the wireless system for
 automatically generating status notifications such that the triggering results in the
 creation of the standard freight message from the entry of the sensor into an area
 governed by gps coordinates on an intelligent device (i.e. tracker), pre-determined
 by the designated locations (i.e. a warehouse) in the customer's freight systems,
 corresponding to the customers' designated location, delivered in the same

Art Unit: 4146

customer-oriented format generic to the customer's freight system in real-time (see at least column 3 lines 52-62, and column 4 lines 55-62, column 5 lines 60-67).

whereby specific arrival and departure freight messages are created
automatically by wireless communications for the same designated locations of
the user and in the user's freight equipment format (see at least column 5 lines
60-67 and column 6 lines 1-2, where the consignor is sent the information in realtime comprising the location and the time of the freight asset, therefore arrival
and departure freight message).

Regarding claim 11, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses:

- evaluating messages initiated by a sensor at one of terminal operations and intermodal Ramp Activity (see at least column 5 lines 60-67 column 6 lines 1-5, where Richardson discloses the shipment going through different mode of transportation i.e. intermodal and different warehouses, i.e. terminals)
- and freight asset location messages and related status messages, triggered by a
 change in a critical condition to allow immediate (e.g. real-time, see at least
 column 4 lines 55-65) exception (i.e. distribution failure) reporting in one of a
 monitoring system or a user system (see at least column 3 lines 58-62 column 5
 lines 1-5).

Regarding **claim 16**, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses: *triggering onto a sensor events which* correspond terminal operations and intermodal ramp (see at least column 5 lines 60-67

Art Unit: 4146

column 6 lines 1-5, where Richardson discloses the shipment going through different mode of transportation and different warehouse, therefore intermodal) activity and related standard freight messages' relevant status information (see at least column 6 lines 1-5, where Richardson discloses a event triggered by some distribution failure such as temperature abuse) to permit a direct linkage between the users of standard freight information trigger events and corresponding trigger events managed by a sensor (the consignor is able to directly see the sensor information in real-time, therefore a direct linkage, see at least column 4 lines 55-65).

Regarding claim 17, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses establishing pre-determined conditions and trigger events (see at least column 3 lines 53-58, where the temperature tolerance range is specified by the consigner) on a fleet of freight assets corresponding to an individual user, and establishing other pre-determined conditions and trigger events on an entirely separate fleet associated with another user (see at least column 4 lines 18-21, where Richardson discloses each consignor accesses the system with a password to access the system via the consigner's homepage, therefore another user i.e. will have another password to access his/her own homepage to put in the database the pre-determined conditions as disclose in column 3 lines 53-58), etc. on the basis of relevant information in the standard freight shipment messages, including one of lading, waybills, status messages, and location messages (see at least column 3 lines 53-58 and Figure 3, where the information regarding the shipment/freight's origin, destination, and properties are described, therefore a waybill).

Art Unit: 4146

Regarding claim 19, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses mounting intelligent wireless devices on freight assets (see at least column 3 lines 30-35). Richardson further discloses the integrating intelligent wireless devices communicate relevant shipment condition in standard shipment messages (see at least column 2 lines 39-41 column 3 lines 6-9 and lines 58-62). Richardson does not specifically disclose these standard shipment messages are communicated in the same format via a translator. However, in a related field of endeavor, Li discloses formatting (i.e. translating) input data into a XML format to prepare for transmission (thereby communicating information in the same format i.e. XML that both the transmitter and receiver can parse, see at least Li paragraph [0004], [0034], [0136]). It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Richardson in view of Li in order to efficiently transmit data as discussed by Li (see at least Li paragraph [0034])

 Claims 3,9-10 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson in view of Li, and further in view of US 5999091 A Larry C. Wortham (hereinafter Wortham).

Regarding claim 3, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses: comparing of the sensed condition from the monitor system transmitted over the wireless system with a standard predetermined condition specified within a standard freight shipment message (see at least column 3 lines 52 – 63, where Richardson discloses a standard freight shipment message, with certain content and format, comprising at least temperature tolerance ranges), to notify

Art Unit: 4146

users of a disparity and provide status updates in the standard freight shipment message of the user (see at least column 2 lines 61-67 and column 6 lines 1-5).

Richardson is silent as to the limitation transmitting via wireless control means to automatically change the actual condition on the asset to conform to the condition specified in the user's standard shipment message. However, in a related art, Wortham discloses changing the actual condition on the asset to a specified condition (see at least Wortham column 4 lines 14-28 and column 9 lines 10-19). It would have been obvious to a person of ordinary skill in the art to modify Richardson and Li in view of Wortham to adjust the asset condition to a specified condition "such sensitive cargo is not ruined. harmed, destroyed, or otherwise damaged" (see at least Wortham column 4 lines 21-26). Regarding claim 9. Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses automatically applying specific conditional information contained in standard freight messages to automatically evaluate prescribed and pre-determined shipment conditions to actual shipment conditions communicated by wireless communications, including a prescribed temperature set point setting for a commodity identified in the standard freight messages of a transport equipment (see at least column 2 lines 61-67, column 3 lines 52-62). Richardson does not disclose the transport equipment as a refrigerated transport equipment. However, in a related art, Wortham discloses a refrigerated transport equipment (see at least Wortham column 1 lines 16-25, where Wortham discloses a trailer having refrigeration units). It would have been obvious to a person of ordinary skill in the art to modify Richardson and Li in view of Wortham to use refrigerated transport equipment to cool the transported asset "such that sensitive cargo is not ruined, harmed, destroyed, or otherwise damaged" (see at least

Art Unit: 4146

Wortham column 4 lines 21-26).

Regarding claim 10, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further teaches comparing the temperature of the freight asset between the predetermined and the actual temperature (see at least column 2 lines 61-67 and column 6 lines 1-5). Richardson does not specifically teach the limitation automatically comparing of the weight of the load of a freight asset in one of the monitoring system and the user. However, in a related art, Wortham teaches a weight sensor that is used to monitor load weight and trigger alarms (upon detection of alarm events, see at least Wortham column 8 lines 58-67 column 9 lines 1-9). It would have been obvious to a person of ordinary skill in the art to modify Richardson and Li in view Wortham in order to efficiently monitor and track the transported assets.

Regarding claim 15, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson does not specifically disclose loading pre-determined conditions and trigger events with a translator onto a sensor on a freight asset, said conditions corresponding to the standard conditions contained within standard freight messages, such as designated locations, set point temperature and presence of auxiliary equipment. However, in a related art, Wortham teaches sensors installed on trailer having alarm events (therefore the sensors are programmed or with pre-determined conditions, see at least Wortham column 8 lines 58-67), and these conditions comprising at least temperature. It would have been obvious to a person of ordinary skill in the art to modify Richardson and Li in view of Wortham in order to efficiently monitor and track the transported asset.

Art Unit: 4146

 Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson in view of Li, and further in view of Wortham and US 20030069648 A1 Douglas et al. (hereinafter Douglas).

Regarding claim 12, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses: evaluating pre-determined conditional information contained in standard freight messages, including one of bills of lading and waybills (see at least column 3 lines 53-58 and Figure 3, where the information regarding the shipment/freight's origin, destination, and properties are described, therefore a waybill), to compare pre-determined shipment conditions, including a set point temperature of a commodity within a freight asset (see at least column 2 lines 62-67). Richardson discloses an intelligent device (i.e. tracker/sender see at least column 3 lines 39-43) and a database containing a set point temperature (see at least column 2 lines 62-67). Richardson is however silent as to the limitation automatically sending commands to an intelligent device including the sensor on the freight asset to change the condition. including the set point temperature, to be compliant with the pre-determined condition in the standard freight message appropriate for the commodity. In a related art, Wortham discloses changing the actual condition on the asset to a specified condition (see at least Wortham column 4 lines 14-28 and column 9 lines 10-19). It would have been obvious to a person of ordinary skill in the art to modify Richardson and Li in view of Wortham to change the freight asset actual condition to a specified condition "such sensitive cargo is not ruined." (See at least Wortham column 4 lines 14-28) However, Richardson, Li and Wortham do not disclose sending commands including the set point temperature to the intelligent device. In a related art, Douglas teaches send certain parameters (e.g.

Art Unit: 4146

temperature set point) to a remote point to control the temperature in the remote end (see at least Douglas paragraph [0110]). It would have been obvious to a person of ordinary skill in the art to modify Richardson and Li in view of Wortham, and further in view of Douglas to send commands to an on-freight intelligent device a temperature set-point in order to "centralize the flow of the information about the assets to optimized the dispatch, control ... of assets." (See at least Douglas paragraph [0032]).

Richardson further discloses a standard freight status message format (see at least column 3 lines 58-62) for communicating to the user the sensor reading. Richardson does not disclose the limitation the said sensor sending a confirmation notification that the condition, such as the set point temperature, is changed, and the confirmation of the actual conditional change is incorporated into a standard freight status message in the format of the user's system to assure compliance to the specified condition. However, the examiner takes official notice that confirming a change in control parameter such as set point temperature is commonly known in the art. Therefore, it is obvious to a person of ordinary skill in the art to modify Richardson, Li, Wortham and Douglas to have the sensor send a confirmation after the change of control parameters.

 Claim 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson in view of Li, and further in view of US 20030179073 A1 Ohanes Ghazarian (hereinafter Ghazarian)

Regarding claim 13, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson is silent as to the limitation transmitting a command to a sensor to lock doors of freight asset when the asset has left a prescribed location contained in the standard freight message. However, Ghazarian teaches a door state changing system

Art Unit: 4146

applied to trailer, more specifically the system unlocks the trailer door according the location (as detected by a GPS unit) of the trailer (see at least Ghazarian abstract). It would have been obvious to a person of ordinary skill in art to modify Ghazarian's invention to lock the door according the location of trailer (e.g. when it's no longer in the warehouse), and combine the modification of Ghazarian to Richardson and Li in order to enhance the safety of the transported asset.

Regarding claim 14, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses automatically initiating a shipment status message in standard shipment formats (see at least column 3 lines 58-62, where Richardson discloses a standard shipment formats), using real-time (see at least column 4 lines 55-65) information from a sensor by requesting it via wireless communications, and wirelessly transmitting information in the standard freight message.

Claims 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over US
 Richardson in view of Li, and further in view of DATA ELEMENTS VERSION 5 PROOF
 X12JTV Truck, VanTW Trailer, Refrigerated (hereinafter Data Element).

Regarding claim 18, Richardson and Li discloses the limitations as shown in the rejection of claim 1. Richardson further discloses wireless intelligence including a sensor on a freight asset to evaluate status conditions that automatically trigger transmissions (see at least column 2 lines 39-41, column 3 lines 4-6 and 30-35, column 5 lines 65-67, column 6 lines 1-5). Richardson does not disclose that those transmissions are translated into EDI and XML-based standard messages that including EDI 322. However, in a related art, Li discloses using EDI standard for data collection (see at least Li paragraph [0004]), and furthermore using XML-formatted messages for data transmission (see at least Li

Art Unit: 4146

paragraph [0034], [0136]). It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Richardson in view of Li in order to efficiently transmit data as discussed by Li (see at least Li paragraph [0034]).

Furthermore, Richardson and Li do not disclose specifically using EDI 322. However, Data Element discloses EDI 322 as a known industry standard used for data collection (see at least Data Element page 94). It would have been obvious to a person of ordinary skill in the art to use EDI 322 because it is specifically designates Terminal Operations and Intermodal Ramp Activity, as disclosed by Data Element on page 94.

Conclusion

- 12. The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
- US 7046985 B2 Seales et al. describes a security system where a control parameter is sent to a remote site, and wherein the remote site, in response to successfully receiving the control parameter, transmit a confirmation to the control parameter originator.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDY GU whose telephone number is (571)270-7233.
 The examiner can normally be reached on Mon-Thur 8:30-5:30;

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RAMESH B PATEL can be reached on 5712723688. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 4146

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/YU GU/ Examiner, Art Unit 4146 Yu (Andy) GU Examiner Art Unit 4146

/Ramesh B. Patel/ Supervisory Patent Examiner, Art Unit 4146